### Material Safety Data Sheet

**Product Name:** LIFEZYME
**Product Code:** 08585
**Manufacturer:** Diversey Lever Institutional
**Distributor:** Diversey Lever Institutional
**Address:** 3630 E. Kemper Rd, Cincinnati, OH 45241-2046
**Chemical Family:** Powdered Enzymatic Laundry Detergent

<table>
<thead>
<tr>
<th>Chemical Name of Hazardous Ingredient</th>
<th>% Exposure Limits</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>NONYLPHENOXO POLYETHOXO GLYCOL</td>
<td>&lt; 8</td>
<td>NOT ESTABLISHED</td>
</tr>
</tbody>
</table>

**Emergency Information:**
- **Contact:** Diversey Lever (800) 831-9889
- **Medical:** Chemtrec (800) 424-9300

**Signs and Symptoms of Exposure:**
- **Acute:** Irritates eyes and skin. Dusts may irritate respiratory tract. May be harmful if swallowed. May cause nausea/diarrhea if ingested.
- **Chronic:** May cause sensitization to enzymes due to repeated skin contact or inhalation.

**Hazards:**
- **Health:** 2
- **Flammability:** 0
- **Reactivity:** 0

**Personal Protection:**
- **Carcinogen Info:** NONE
- **Target Organs or Systems:** NTP IARC OSHA

**Inhalation:**
- **Inhalation:** If inhaled, remove to fresh air. Get medical attention.

**Eyes:**
- Flush thoroughly with fresh water for at least 15 minutes. Get medical attention.

**Skin:**
- Flush with fresh water, wash with soap and water. Remove contaminated clothes and shoes. If irritation develops, get medical attention.

**Ingestion:**
- Give water, do not induce vomiting. Get medical attention. Never give anything by mouth to an unconscious person.

**Extinguishing Media:**
- Water, water fog

**Use/Cleaning:**
- Wear full protective gear to prevent skin contact and self-measures. Contained breathing apparatus.

**Flammable Property:**
- None

**Explosion Information:**
- None

**Send To:**

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**From:** Diversey Lever at Diversey Lever 460-2
**Date:** 07/22/1992
### Spill and Leak Clean Up Procedures

**Environmental Precautions**

- **Ventilation Required?** Yes
- **Instructions:** Normal air dilution
- **Safe Storage:** Keep container closed, dry indoor storage, retain package integrity, and use store away from open flame. Keep from freezing to maintain optimum enzyme activity.
- **Incompatible Materials:**
  - Protective Gloves: Rubber, PVC, or chemical resistant
  - Eye Protection: Splash goggles, face shield or side shield safety glasses
  - Respiratory Protection: NIOSH approved nuisance dust mask, N95 respirator levels
  - Other Protective Clothing: Chemically impervious clothing and footwear, safety shower and eye wash in use area.
- **Inert Additives:**
  - Peroxide, Pyrophoric, Unstable or Water Reactive
  - Reactivity and hazardous polymerization known
  - Conditions to Avoid: Avoid CHLORINATING CLEANERS.
- **Handling:**
  - Method: Use until less than one inch remains in container, empty, and rinse. Dispose, container, triple rinse container with water, add to operation. Residues: Dispose as solid waste. Remove or deface container label and safe before selling or disposal. Handling: Contains 16.8% phosphorus. Solution may be toxic to fish or aquatic life. Do not discharge to lakes or ponds.
- **Disposal of Contaminated Material:**
  - Compost cleaning, other than liquid, N.O.I.
- **Aquatic Toxicity:**
  - GLYCOL ETHERS PRESENT.

### Chemical Properties

- **Vapor Pressure:** N/A
- **Water Solubility:** 34%
- **Appearance & Odor:** White free-flowing powder, surfactant odor
- **Melting Point:** N/A
- **Flash Point:** N/A
- **Autoignition:** N/A
- **Flammability Limits:** N/A
- **Oxidizing Properties:**
  - Specific Gravity: 0.827
  - Volatile by Volume: N/A
- **Stability and Reactivity:**
  - Peroxide, Pyrophoric, Unstable or Water Reactive
  - Reactivity and hazardous polymerization known
  - Conditions to Avoid: Avoid CHLORINATING CLEANERS.
  - Hazardous Oxides of Carbon
  - Decomposition Products

### Hazardous Information

- **Possible Effects and Environmental Fate:**
  - Degradability
  - Aquatic Toxicity

### Disposal Considerations

- **Disposal of Compound Cleaning, other than liquid, N.O.I.**

### Regulatory Information

- **SARA**
  - Title III
  - Section 313

### To Know

- SODIUM SESQUICARBONATE - CAS #533-96-0
- SODIUM SULFATE - CAS #7757-82-6
- SODIUM TRIPOLYPHOSPHATE - CAS #7785-29-4
- SODIUM CARBOXYMETHYL CELLULOSE - CAS #9004-32-4
- SUBTILISIN - CAS #9014-01-1